

L Number	Hits	Search Text	DB	Time stamp
7	240	524/[ccls] and (fiber\$5 or fibre\$5 or fibrous or fibril\$5) and (tire\$1 or tyre\$1) and (tread\$1 or undertread\$1)	USPAT	2004/01/28 17:10

DERWENT-ACC-NO: 1995-171785

DERWENT-WEEK: 199709

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Radial vehicle tyre for forming  
felting structure on vulcanising - comprises rubber layers  
for the radial carcass contg. thermally shrinkable  
staple fibres in the rubber mixt., for required  
orientation

INVENTOR: BECKMANN, O

PATENT-ASSIGNEE: SEMPERIT REIFEN AG [SEMP]

PRIORITY-DATA: 1993AT-0002263 (November 8, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	
LANGUAGE	PAGES	MAIN-IPC
EP 652116 A1		May 10, 1995
007	B60C 009/18	G
DE 59401261 G		January 23, 1997
000	B60C 009/18	N/A
AT 9302263 A		March 15, 1996
000	B60C 009/18	N/A
AT 401639 B		September 15, 1996
000	B60C 009/18	N/A
EP 652116 B1		December 11, 1996
008	B60C 009/18	G

DESIGNATED-STATES: AT DE FR GB IT AT DE FR GB IT

CITED-DOCUMENTS: 1.Jnl.Ref; AT 315656 ; AT 322390 ; EP 372677 ; FR 2083683 ; FR 2104013 ; JP 04274903 ; LU 66168 ; US 3918506 ; JP 4274903

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		

EP 652116A1	N/A	
1994EP-0890182	October 27, 1994	
DE 59401261G	N/A	
1994DE-0501261	October 27, 1994	
DE 59401261G	N/A	
1994EP-0890182	October 27, 1994	
DE 59401261G	Based on	EP 652116
	N/A	
AT 9302263A	N/A	
1993AT-0002263	November 8, 1993	
AT 401639B	N/A	
1993AT-0002263	November 8, 1993	
AT 401639B	Previous Publ.	AT 9302263
	N/A	
EP 652116B1	N/A	
1994EP-0890182	October 27, 1994	

INT-CL (IPC): B60C009/18

ABSTRACTED-PUB-NO: EP 652116A

BASIC-ABSTRACT:

The vehicle tyre, with a radial carcass of one or more layers, has rubber layers (5) of a rubber mixture containing 5-50 wt.% of thermally shrinkable staple fibres (7) in relation to 100 wt.% of rubber. The fibre length is 5-50 mm and especially 10-30 mm.

ADVANTAGE - The fibre material forms a felting structure when the rubber is vulcanised, to give the required orientation and inner tension.

ABSTRACTED-PUB-NO: EP 652116B

EQUIVALENT-ABSTRACTS:

Vehicle tyre, having a single-ply or multiple-ply radial carcass, a tread strip and a belt, which is disposed between the radial carcass (1) and the tread strip and is provided with, more especially, at least 2 belt plies (4a, 4b), having reinforcing members formed from steel or a textile

material and  
extending parallel to one another in each position, and  
having at least one  
rubber ply (5) disposed between the tread strip and the  
belt, said rubber ply  
being reinforced with fibres, the main direction of  
orientation of which fibres  
is identical to the circumferential direction,  
characterised in that the rubber  
ply or respectively the rubber plies (5) is or are produced  
from a rubber  
mixture and contains or contain 5 to 50 parts by weight,  
relative to 100 parts  
by weight rubber in the mixture, heat-shrinkable fibres in  
the form of staple  
fibres (7), the length of which fibres is 5 to 50 mm, more  
especially 10 to 30  
mm.

CHOSEN-DRAWING: Dwg.2/3 Dwg.1/2

TITLE-TERMS: RADIAL VEHICLE TYRE FORMING FELT STRUCTURE  
VULCANISATION COMPRIZE

RUBBER LAYER RADIAL CARCASS CONTAIN THERMAL  
SHRINK STAPLE FIBRE

RUBBER MIXTURE REQUIRE ORIENT

ADDL-INDEXING-TERMS:

POLYAMIDE

DERWENT-CLASS: A95 Q11

CPI-CODES: A08-R01; A12-T01;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

017 ; H0124\*R ; M9999 M2073 ; L9999 L2391 ; L9999 L2073

Polymer Index [1.2]

017 ; ND01 ; Q9999 Q9256\*R Q9212 ; K9416 ; B9999

B5243\*R B4740 ;

K9381 ; K9892 ; B9999 B5243\*R B4740

Polymer Index [1.3]

017 ; A999 A419 ; S9999 S1070\*R ; S9999 S1092 S1070 ;

B9999 B5550

B5505 ; S9999 S1672

Polymer Index [1.4]

017 ; R00851 G1149 G1092 D01 D19 D18 D31 D50 D86 F32

F30 ; R00727

G1809 G1649 D01 D05 D07 D25 D22 D33 D45 D50 D86 F10 F07  
; A999 A033  
Polymer Index [2.1]  
017 ; P0635\*R F70 D01 ; P0646 P0635 F70 D01 D11 D10 D50  
D86 ; P0691  
P0635 F70 D01 D11 D10 D50 D92 E13 E00 ; S9999 S1070\*R ;  
S9999 S1092  
S1070 ; A999 A419 ; A999 A782 ; S9999 S1672  
Polymer Index [2.2]  
017 ; D19 D18 E21 E00 ; P0839\*R F41 D01 D63 ; S9999  
S1070\*R ; S9999  
S1092 S1070 ; H0293 ; A999 A419 ; A999 A782 ; S9999  
S1672  
Polymer Index [2.3]  
017 ; B9999 B5550 B5505  
Polymer Index [3.1]  
017 ; H0124\*R ; A999 A033 ; A999 A782  
Polymer Index [3.2]  
017 ; R00851 G1149 G1092 D01 D19 D18 D31 D50 D86 F32  
F30 ; H0011\*R  
; P0226 P0282\*R D01 D18 F30 ; A999 A033 ; A999 A782  
Polymer Index [3.3]  
017 ; R00859 G1809 G1649 D01 D23 D22 D31 D45 D50 D83  
F19 F10 F07  
; P0259\*R P0226 D01 ; H0011\*R ; M9999 M2200 ; A999 A033  
; A999 A782  
Polymer Index [4.1]  
017 ; P0000 ; S9999 S1070\*R ; S9999 S1092 S1070 ; A999  
A419 ; A999  
A782 ; S9999 S1672  
Polymer Index [4.2]  
017 ; N9999 N6906 ; B9999 B5027 B5016 B4977 B4740  
Polymer Index [4.3]  
017 ; B9999 B5550 B5505

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1995-079797

Non-CPI Secondary Accession Numbers: N1995-134625

DERWENT-ACC-NO: 1996-094346

DERWENT-WEEK: 199610

COPYRIGHT 1999 DERWENT INFORMATION LTD

TITLE: Rubber compsn. for tyre base tread -  
is obtd. from fibre reinforced thermoplastic compsn.,  
natural rubber and/or polyisoprene, other diene! rubber  
and carbon black

PATENT-ASSIGNEE: UBE IND LTD[UBEI]

PRIORITY-DATA: 1994JP-0135919 (June 17, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	
LANGUAGE	PAGES	MAIN-IPC
JP 08003369 A		January 9, 1996
010	C08L 021/00	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP 08003369A	N/A	
1994JP-0135919	June 17, 1994	

INT-CL (IPC): B60C001/00, C08K003/04, C08K007/02,  
C08L021/00, C08L023/02, C08L077/00, C08L021/00, C08L077:00

ABSTRACTED-PUB-NO: JP 08003369A

BASIC-ABSTRACT:

Rubber compsn. is obtd. by compounding (A) a  
fibre-reinforced thermoplastic  
compsn. comprising (a) polyolefin, (b) vulcanisable rubber,  
and (c)  
thermoplastic polymer having amide gps. in the main chain,  
(a) and (b)  
constituting a matrix and (c) being dispersed in the matrix  
as fine fibre and

bonded to (a) and (b) and the amt. of (c) being 1-15 pts. wt. per 100 pts.

wt. of the total rubber component; (B) natural rubber and/or polyisoprene; (C)

diene rubber other than natural rubber and polyisoprene; and (D) carbon black.

The total amt. of the natural rubber and/or polyisoprene in (A) and (B) is

100-50 wt.% based on the total rubber component. The amt. of (D) is 35-45 pts.

wt. per 100 pts. wt. of the total rubber component. The vulcanised prod. of

the compsn. has a modulus of bounce impact elasticity (BS 903) of 60%.

ADVANTAGE - The compsn. has good workability and low Mooney viscosity and shows

small die swell. The vulcanised prod. of the compsn. exhibits low heat build-up.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS: RUBBER COMPOSITION TYRE BASE TREAD OBTAIN  
FIBRE REINFORCED

THERMOPLASTIC COMPOSITION NATURAL RUBBER  
POLYISOPRENE POLYDIENE  
RUBBER CARBON BLACK

DERWENT-CLASS: A18 A95 Q11

CPI-CODES: A03-B; A04-B01E; A04-B06; A04-G01E; A07-A02A1;  
A08-R03; A11-C02A1;  
A12-T01;

## ENHANCED-POLYMER-INDEXING:

### Polymer Index [1.1]

```
    018 ; R00429 G0828 G0817 D01 D02 D12 D10 D51 D54 D56
D58 D85 ; R24073
    D01 D02 D03 D12 D10 D51 D53 D59 D85 P0599 H0124 B5061 ;
H0000 ;
```

H0124\*R ; M9999

Polymer Index [1.2]  
018 ; G0828\*R G0817 D01 D12 D10 D51 D54 D56 ; H0000 ;

H0011\*R ;  
M9999 M2073 ; P0328

Polymer Index [1..3]  
018 ; F70\*R ; H0317 ; M9999 M2073

Polymer Index [1.4]

018 ; ND01 ; K9892 ; B9999 B4988\*R B4977 B4740 ;  
K9745\*R ; B9999  
B4079 B3930 B3838 B3747 ; B9999 B5287 B5276 ; B9999  
B3612 B3554  
; K9449 ; Q9999 Q9256\*R Q9212 ; B9999 B3565 B3554 ;  
B9999 B4002  
B3963 B3930 B3838 B3747

Polymer Index [1.5]

018 ; R05085 D00 D09 C\* 4A ; A999 A237 ; A999 A419 ;  
A999 A760

Polymer Index [1.6]

018 ; A999 A419 ; S9999 S1070\*R

Polymer Index [2.1]

018 ; G0033\*R G0022 D01 D02 D51 D53 ; H0000 ; H0011\*R ;  
P1150

Polymer Index [2.2]

018 ; ND01 ; K9892 ; B9999 B4988\*R B4977 B4740 ;  
K9745\*R ; B9999  
B4079 B3930 B3838 B3747 ; B9999 B5287 B5276 ; B9999  
B3612 B3554  
; K9449 ; Q9999 Q9256\*R Q9212 ; B9999 B3565 B3554 ;  
B9999 B4002  
B3963 B3930 B3838 B3747

Polymer Index [2.3]

018 ; B9999 B5629 B5572 ; B9999 B5607 B5572

Polymer Index [2.4]

018 ; A999 A419 ; S9999 S1070\*R

Polymer Index [2.5]

018 ; R05085 D00 D09 C\* 4A ; A999 A237 ; A999 A419 ;  
A999 A760

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-030280

Non-CPI Secondary Accession Numbers: N1996-079082